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Search History

DATE: Tuesday, January 18, 2005 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR			
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L11	709/223	6364	L11
L10	709.clas.	33469	L10
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L8	700/98	448	L8
L7	700/97	1021	L7
L6	700/96	512	L6
L5	700.clas.	40398	L5
L4	707.clas.	24557	L4
L3	707/101	3734	L3
L2	707/100	5679	L2
L1	707/3	7683	L1

END OF SEARCH HISTORY

L1: Entry 1 of 2 File: USPT Oct 7, 2003

US-PAT-NO: 6631397
DOCUMENT-IDENTIFIER: US 6631397 B1
**** See image for Certificate of Correction ****

TITLE: Information registration method, information management method, information registration apparatus, information management apparatus, and storage medium

DATE-ISSUED: October 7, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Satomi; Hiroshi	Yokohama			JP
Masukawa; Akihiro	Kawasaki			JP
Kasai; Kenji	Tokyo			JP
Fukunaga; Shinji	Kawasaki			JP
Inoue; Atsushi	Tokyo			JP
Ito; Kosuke	Tokyo			JP
Izumi; Jiro	Kawasaki			JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Canon Kabushiki Kaisha	Tokyo			JP	03

APPL-NO: 09/ 547317 [PALM]
DATE FILED: April 11, 2000

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	11-107140	April 14, 1999

INT-CL: [07] G06 F 15/16

US-CL-ISSUED: 709/203; 709/246, 714/49
US-CL-CURRENT: 709/203; 709/246, 714/49

FIELD-OF-SEARCH: 709/201, 709/203, 709/224, 709/225, 709/246, 709/217, 707/10, 707/104, 714/4, 714/21, 714/49

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

L2: Entry 1 of 2 File: USPT Jun 8, 2004

US-PAT-NO: 6747755
DOCUMENT-IDENTIFIER: US 6747755 B1

TITLE: Code generation method, terminal apparatus, code processing method, issuing apparatus, and code issuing method

DATE-ISSUED: June 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Satomi; Hiroshi	Yokohama			JP
Masukawa; Akihiro	Kawasaki			JP
Kasai; Kenji	Tokyo			JP
Fukunaga; Shinji	Kawasaki			JP
Inoue; Atsushi	Tokyo			JP
Ito; Kosuke	Tokyo			JP
Izumi; Jiro	Kawasaki			JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Canon Kabushiki Kaisha	Tokyo			JP	03

APPL-NO: 09/ 547399 [PALM]
DATE FILED: April 11, 2000

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	11-283461	April 10, 1999
JP	11-107236	April 14, 1999

INT-CL: [07] G06 K 15/00

US-CL-ISSUED: 358/1.15; 358/1.6
US-CL-CURRENT: 358/1.15; 358/1.6

FIELD-OF-SEARCH: 358/1.15, 358/1.6, 358/1.13, 358/1.14, 358/402, 358/403, 358/405, 358/440, 358/442, 709/217, 709/218, 709/219, 709/378, 710/8, 710/9, 710/10, 710/11, 710/20, 710/62, 710/64

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

L24: Entry 51 of 76 File: USPT Oct 22, 2002

US-PAT-NO: 6470383
DOCUMENT-IDENTIFIER: US 6470383 B1

TITLE: System and methods for generating and displaying web site usage data

DATE-ISSUED: October 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Leshem; Eran	Gan Shomron			IL
Weinberg; Amir	Zoran			IL

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Mercury Interactive Corporation	Sunnyvale	CA			02

APPL-NO: 09/ 177222 [PALM]
DATE FILED: October 22, 1998

PARENT-CASE:
PRIORITY CLAIM This application is a division of U.S. application Ser. No. 08/840,103 filed Apr. 11, 1997, now U.S. Pat. No. 5,870,559 which claims the benefit of U.S. Provisional Application No. 60/028,474 filed Oct. 15, 1996, which is hereby incorporated by reference.

INT-CL: [07] G06 F 15/57, G06 F 13/38

US-CL-ISSUED: 709/223; 709/224
US-CL-CURRENT: 709/223; 709/224

FIELD-OF-SEARCH: 709/217, 709/223, 709/224, 709/218, 709/238, 707/501, 345/329, 345/349, 345/356, 345/357, 345/440, 345/581, 345/606, 345/706, 345/733, 345/734, 345/736, 345/737, 345/738, 345/783, 345/753

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	5295261	March 1994	Simonetti	
☐	5388255	February 1995	Pytlik et al.	
	5515488	May 1996	Hoppe et al.	

☐				
☐	5524202	June 1996	Yokohama	
☐	5544310	August 1996	Forman et al.	
☐	5546529	August 1996	Bowers et al.	
☐	5590250	December 1996	Lamping et al.	
☐	5615325	March 1997	Peden	395/326
☐	5619632	April 1997	Lamping et al.	345/441
☐	5675510	October 1997	Coffey et al.	364/514A
☐	5712981	January 1998	McKee et al.	709/241
☐	5751965	May 1998	Mayo et al.	709/224
☐	5892917	April 1999	Myerson	709/234
☐	5910803	June 1999	Grau et al.	345/357
☐	5923328	July 1999	Griesmer	345/357
☐	5937163	August 1999	Lee et al.	709/218
☐	6035330	March 2000	Astiz et al.	709/218
☐	6189019	February 2001	Blumer et al.	707/513

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Lin, "Searching aand Browsing on Map Displays", University of Kentucky, 15 pages.*
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Superimpose and network management in 1995 search report, Google search engine, 2 page.*
Article titled: "Virtual Office endorses In-house tracking," Interactive Age, vol. 2, No. 22, p. 18, Aug. 28, 1995.
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User's Guide for NetCarta WebMapper 1.0 for Windows NT/95, dated 1996.
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Article titled "Top Tools to Manage your Web Site," Netguide Magazine, Apr., 1997.
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Document titled "XSoft Licenses Information Visualization Technology to NetCarta Corp.", dated Sep. 17, 1996, printed from NetCarta.com Website.
Press release titled "Ararat Software Announces Availability of Inwebstigator 1.0", dated Sep. 23, 1996, printed from Ararat.com Website.
Document titled "Incontext Announces Webanalyzer for Windows 95", dated Feb. 15, 1996.
Press release titled "Mercury Interactive Announces Industry's First Testing Technology for the Web", dated Jan. 1, 1996.
Press release titled "Mercury Interactive Makes Stress Testing a Web Site Simple and Affordable: Astra SiteTest Generates over 4 Million Hits Using a Single Windows 95 or NT Work Station", dated Dec. 9, 1996.
Press release titled "Out-of-Control Web Sites Made More Effective, Profitable with New Web Management Tool: Mercury Interactive's Astra. Instantly Pinpoints Problems

and Displays User-Behavior Patterns for Higher Quality Web Sites", dated Oct. 9, 1996. 1996.
Press release titled "Tool For Webmasters Provides Open API For Java, C++ and Visual Basic Developers: Mercury Interactive Announces Astra. Industry's First. Comprehensive, Graphical Web Management Tool", dated Oct. 9, 1996.
Press release titled "Webmasters Eager for Site Management Solutions Rally Around New Web Management Tool; Mercury Interactive Ships Astra SiteManager, Developers Begin Leveraging Open API", dated Dec. 9, 1996.
Product brochure for Astra SiteManager, dated 1997.
Product brochure for net.Analysis product of net.Genisis (undated).
Product brochure for CyberPilot Pro Product of NetsCarta (undated).
Article entitled "Web site management betas show major advances", dated Nov. 11, 1996 in PC Week.
Original CD-ROM, dated 1996 for InContext WebAnalyzer 1.0 product.
Original CD-ROM (undated) for NetCarta WebMapper 1.0 product.
Product Brochure For Graph Layout Toolkit from Tom Sawyer Software. 8 pages (undated).
Discovering Web Access Patterns and Trends by Applying OLAP and Data Mining Technology on Web Logs. Zaiane. Xin and Han. Proceedings of the IEEE Forum on Research and Technology Advances in Digital Libraries (IEEE ADL 98). p. 19-29 (1998).
Tree Visualization with Tree-Maps: 2-d Space Filling Approach. Shneiderman, Ben. ACM Transactions on Graphics vol. 11, No. 1, Jan. 1992. pp. 92-99.
Munzner, T. and Burchard, P., "Visualizing the Structure of the World Wide Web in 3D Hyperbolic Space," dated Jun. 9, 1997.

ART-UNIT: 2152

PRIMARY-EXAMINER: Harrell; Robert B.

ASSISTANT-EXAMINER: Jaroenchonwanit; Bunjob

ATTY-AGENT-FIRM: Knobbe, Martens, Olson & Bear LLP

ABSTRACT:

A visual Web site analysis program, implemented as a collection of software components, provides a variety of features for facilitating the analysis and management of Web sites and Web site content. A mapping component scans a Web site over a network connection and builds a site map which graphically depicts the URLs and links of the site. Site maps are generated using a unique layout and display methodology which allows the user to visualize the overall architecture of the Web site. Various map navigation and URL filtering features are provided to facilitate the task of identifying and repairing common Web site problems, such as links to missing URLs. A dynamic page scan feature enables the user to include dynamically-generated Web pages within the site map by capturing the output of a standard Web browser when a form is submitted by the user, and then automatically resubmitting this output during subsequent mappings of the site. The Web site analysis program is implemented using an extensible architecture which includes an API that allows plug-in applications to manipulate the display of the site map. Various plug-ins are provided which utilize the API to extend the functionality of the analysis program, including an action tracking plug-in which detects user activity and behavioral data (link activity levels, common site entry and exit points, etc.) from server log files and then superimposes such data onto the site map.

57 Claims, 24 Drawing figures

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L24: Entry 66 of 76 File: USPT Nov 7, 2000

US-PAT-NO: 6144962
DOCUMENT-IDENTIFIER: US 6144962 A

TITLE: Visualization of web sites and hierarchical data structures

DATE-ISSUED: November 7, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weinberg; Amir	Zoran			IL
Pogrebisky; Michael	Herzliya			IL

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Mercury Interactive Corporation	Sunnyvale	CA			02

APPL-NO: 08/ 843265 [PALM]
DATE FILED: April 11, 1997

PARENT-CASE:
PRIORITY CLAIM This application claims the benefit of U.S. Provisional Application No. 60/028,474 titled SOFTWARE SYSTEM AND ASSOCIATED METHODS FOR FACILITATING THE ANALYSIS AND MANAGEMENT OF WEB SITES, filed Oct. 15, 1996, which is hereby incorporated by reference. MICROFICHE APPENDIX This specification includes a microfiche appendix consisting of 1 sheet with 45 frames) which contains a partial source code listing and an API (application program interface) listing of a preferred embodiment of the invention, as Appendices A and B, respectively. These materials form part of the disclosure of the specification.

INT-CL: [07] G06 F 17/30

US-CL-ISSUED: 707/10; 707/104, 345/356, 345/357
US-CL-CURRENT: 707/10; 707/104.1, 715/749, 715/760

FIELD-OF-SEARCH: 707/10, 707/104, 395/200.48, 395/200.49, 395/200.54, 345/356, 345/357

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	5295261	March 1994	Simonetti	

☐	5388255	February 1995	Pytlik et al.	
☐	5515488	May 1996	Hoppe et al.	
☐	5524202	June 1996	Yokohama	
☐	5544310	August 1996	Forman et al.	
☐	5546529	August 1996	Bowers et al.	
☐	5590250	December 1996	Lamping et al.	
☐	5619632	April 1997	Lamping et al.	395/141
☐	5870559	February 1999	Lesham et al.	395/200.54

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Discovering Web Access Patterns and Trends by Applying OLAP and Data Mining Technology on Web Logs, Zaiane, Xim and Han, Proceedings of the IEEE Forum on Research and Technology Advances in Digital Libraries (IEEE ADL '98), pp. 19-29 (1998).
Tree Visualization with Tree-Maps: 2-d Space-Filling Approach, Shneiderman, Ben, ACM Transactions on Graphics vol. 11, No. 1, Jan. 1992, pp. 92-99.
Product Brochure For Graph Layout Toolkit from Tom Sawyer Software, 8 pages (undated).
"Getting Started" Manual for Netcarta WebMapper 1.0 for Windows NT/95, dated 1996.
User's Guide for NetCarta WebMapper 1.0 for Windows NT/95, dated 1996.
Product packaging (front and back) for NetCarta WebMapper 1.0, dated 1996.
"Getting Started" Guide for InContext WebAnalyzer 1.0, dated 1996.
Print-out of online help manual for InContext WebAnalyzer 1.0 product (taken from CD-ROM dated 1996).
Product packaging (front and back) for InContext WebAnalyzer 1.0, dated 1996.
Article titled "Top Tools to Manage your Web Site," Netguide Magazine, Apr., 1997.
Selected documents from Microsoft.com Web site describing Microsoft FrontPage 1.1, downloaded and printed on Oct. 8, 1996 (5 printed pgs.).
Document titled "XSoft Licenses Information Visualization Technology to NetCarta Corp.", dated Sep. 17, 1996, printed from NetCarta.com Website.
Press release titled "Ararat Software Announces Availability of Inwebstigator 1.0", dated Sep. 23, 1996, printed from Ararat.com Website.
Document titled "Incontext Announces Webanalyzer for Windows 95", dated Feb. 15, 1996.
Press release titled "Mercury Interactive Announces Industry's First Testing Technology for the Web", dated Jan. 1, 1996.
Press release titled "Mercury Interactive Make Stress Testing a Web Site Simple and Affordable; Astra SiteTest Generates over 4 Million Hits Using a Single Windows 95 or NT Work Station", dated Dec. 9, 1996.
Press release titled "Out-of-Control Web Sites Made More Effective, Profitable with New Web Management Tool; Mercury Interactive's Astra Instantly Pinpoints Problems and Displays User-Behavior Patterns for Higher Quality Web Sites", dated Oct. 9, 1996.
Press release titled "Tool For Webmasters Provides Open API For Java, C++ and Visual Basic Developers; Mercury Interactive Announces Astra--Industry's First, Comprehensive, Graphical Web Management Tool", dated Oct. 9, 1996.
Press release titled "Webmasters Eager for Site Management Solutions Rally Around New Web Management Tool; Mercury Interactive Ships Astra SiteManager, Developers Begin Leveraging Open API", dated Dec. 9, 1996.
Product brochure for Astra SiteManager, dated 1997.
Product brochure for net.Analysis product of net.Genisis (undated).
Product brochure for CyberPilot Pro Product of NetsCarta (undated).
Article entitled "Web site management betas show major advances," dated Nov. 11, 1996 in PC Week.

ART-UNIT: 271

PRIMARY-EXAMINER: Lintz; Paul R.

ATTY-AGENT-FIRM: Knobbe, Martens, Olson & Bear LLP

ABSTRACT:

A visual Web site analysis program, implemented as a collection of software components, provides a variety of features for facilitating the analysis and management of Web sites and Web site content. A mapping component scans a Web site over a network connection and builds a site map which graphically depicts the URLs and links of the site. Site maps are generated using a unique layout and display methodology which allows the user to visualize the overall architecture of the Web site. Various map navigation and URL filtering features are provided to facilitate the task of identifying and repairing common Web site problems, such as links to missing URLs. A dynamic page scan feature enables the user to include dynamically-generated Web pages within the site map by capturing the output of a standard Web browser when a form is submitted by the user, and then automatically resubmitting this output during subsequent mappings of the site. The Web site analysis program is implemented using an extensible architecture which includes an API that allows plug-in applications to manipulate the display of the site map. Various plug-ins are provided which utilize the API to extend the functionality of the analysis program, including an action tracking plug-in which detects user activity and behavioral data (link activity levels, common site entry and exit points, etc.) from server log files and then superimposes such data onto the site map.

67 Claims, 24 Drawing figures

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L24: Entry 69 of 76 File: USPT Sep 28, 1999

US-PAT-NO: 5958008
DOCUMENT-IDENTIFIER: US 5958008 A

TITLE: Software system and associated methods for scanning and mapping dynamically-generated web documents

DATE-ISSUED: September 28, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pogrebisky; Michael	Herzliya			IL
Weinberg; Amir	Zoran			IL

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Mercury Interactive Corporation	Sunnyvale	CA			02

APPL-NO: 08/ 837012 [PALM]
DATE FILED: April 11, 1997

PARENT-CASE:
PRIORITY CLAIM This application claims the benefit of U.S. Provisional Application No. 60/028,474 titled SOFTWARE SYSTEM AND ASSOCIATED METHODS FOR FACILITATING THE ANALYSIS AND MANAGEMENT OF WEB SITES, filed Oct. 15, 1996, which is hereby incorporated by reference.

INT-CL: [06] G06 F 13/00

US-CL-ISSUED: 709/223; 709/224
US-CL-CURRENT: 709/223; 709/224

FIELD-OF-SEARCH: 709/217-226

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	5295261	March 1994	Simonetti	707/2
☐	5388255	February 1995	Pytlik et al.	707/4
☐	5515488	May 1996	Hoppe et al.	345/440

☐	5524202	June 1996	Yokohama	707/104
☐	5544310	August 1996	Forman et al.	714/31
☐	5546529	August 1996	Bowers et al.	345/348
☐	5590250	December 1996	Lamping et al.	345/427
☐	5657438	August 1997	Wygodny et al.	395/701

OTHER PUBLICATIONS

Product Brochure For Graph Layout Toolkit from Tom Sawyer Software, 8 pages (undated).
"Getting Started" Manual for Netcarta WebMapper 1.0 for Windows NT/95, dated 1996.
User's Guide for NetCarta WebMapper 1.0 for Windows NT/95, dated 1996.
Product packaging (front and back) for NetCarta WebMapper 1.0, dated 1996.
"Getting Started" Guide for InContext WebAnalyzer 1.0, dated 1996.
Print-out of online help manual for InContext WebAnalyzer 1.0 product (taken from CD-ROM dated 1996).
Product packaging (front and back) for InContext WebAnalyzer 1.0, dated 1996.
Article titled "Top Tools to Manage your Web Site," Netguide Magazine, Apr., 1997.
Selected documents from Microsoft.com Web site describing Microsoft FrontPage 1.1, downloaded and printed on Oct. 8, 1996 (5 printed pgs.).
Document titled "XSoft Licenses Information Visualization Technology to NetCarta Corp.", dated Sep. 17, 1996, printed from NetCarta.com Website.
Press release titled "Ararat Software Announces Availability of Inwebstigator 1.0", dated Sep. 23, 1996, printed from Ararat.com Website.
Document titled "Incontext Announces Webanalyzer for Windows 95", dated Feb. 15, 1996.
Press release titled "Mercury Interactive Announces Industry's First Testing Technology for the Web", dated Jan. 1, 1996.
Press release titled "Mercury Interactive Makes Stress Testing a Web Site Simple and Affordable; Astra SiteTest Generates over 4 Million Hits Using a Single Windows 95 or NT Work Station", dated Dec. 9, 1996.
Press release titled "Out-of-Control Web Sites Made More Effective, Profitable with New Web Management Tool; Mercury Interactive's Astra Instantly Pinpoints Problems and Displays User-Behavior Patterns for Higher Qulity Web Sites", dated Oct. 9, 1996.
Press release titled "Tool For Webmasters Provides Open API For Java, C++ and Visual Basic Developers; Mercury Interactive Announces Astra -- Industry's First, Comprehensive, Graphical Web Management Tool", dated Oct. 9, 1996.
Press release titled "Webmasters Eager for Site Management Solutions Rally Around New Web Management Tool; Mercury Interactive Ships Astra SiteManager, Developers Begin Leveraging Open API", dated Dec. 9, 1996.
Product brochure for Astra SiteManager, dated 1997.
Product brochure for net.Analysis product of net.Genisis (undated).
Product brochure for CyberPilot Pro Product of NetsCarta (undated).
Article entitled "Web site management betas show major advances," dated Nov. 11, 1996 in PC Week.

ART-UNIT: 278

PRIMARY-EXAMINER: Maung; Zarni

ASSISTANT-EXAMINER: Ovedovitz; David

ATTY-AGENT-FIRM: Knobbe, Martens, Olson & Bear, LLP

ABSTRACT:

A visual Web site analysis program, implemented as a collection of software components, provides a variety of features for facilitating the analysis and management of Web sites and Web site content. A mapping component scans a Web site over a network connection and builds a site map which graphically depicts the URLs and links of the site. Site maps are generated using a unique layout and display methodology which allows the user to visualize the overall architecture of the Web site. Various map navigation and URL filtering features are provided to facilitate the task of identifying and repairing common Web site problems, such as links to missing URLs. A dynamic page scan feature enables the user to include dynamically-generated Web pages within the site map by capturing the output of a standard Web browser when a form is submitted by the user, and then automatically resubmitting this output during subsequent mappings of the site. The Web site analysis program is implemented using an extensible architecture which includes an API that allows plug-in applications to manipulate the display of the site map. Various plug-ins are provided which utilize the API to extend the functionality of the analysis program, including an action tracking plug-in which detects user activity and behavioral data (link activity levels, common site entry and exit points, etc.) from server log files and then superimposes such data onto the site map.

39 Claims, 24 Drawing figures

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L24: Entry 74 of 76 File: USPT May 25, 1999

US-PAT-NO: 5907835
DOCUMENT-IDENTIFIER: US 5907835 A
** See image for Certificate of Correction **

TITLE: Electronic filing system using different application program for processing drawing commands for printing

DATE-ISSUED: May 25, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yokomizo; Yoshikazu	Yokohama			JP
Sugiura; Susumu	Atsugi			JP
Sugiyama; Mitsumasa	Kawasaki			JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Canon Kabushiki Kaisha	Tokyo			JP	03

APPL-NO: 08/ 560496 [PALM]
DATE FILED: November 17, 1995

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	6-285260	November 18, 1994
JP	6-299630	December 2, 1994
JP	6-300445	December 5, 1994
JP	7-034252	January 31, 1995

INT-CL: [06] G06 F 17/30

US-CL-ISSUED: 707/1; 707/200
US-CL-CURRENT: 707/1; 707/200

FIELD-OF-SEARCH: 395/600, 395/601, 358/403, 358/445, 382/232, 382/239, 382/56

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL

☐	4797945	January 1989	Suzuki et al.	382/56
☐	4885704	December 1989	Takagi et al.	364/521
☐	4943868	July 1990	Yoshinaga et al.	358/403
☐	5099340	March 1992	Kamada et al.	358/403
☐	5187592	February 1993	Sugiyama et al.	358/430
☐	5231482	July 1993	Murakami et al.	358/75
☐	5251020	October 1993	Sugiyama	358/500
☐	5255104	October 1993	Ogawa	358/445
☐	5283667	February 1994	Kojima et al.	358/462
☐	5321831	June 1994	Hirose	707/10
☐	5339169	August 1994	Meguro et al.	358/403
☐	5363504	November 1994	Hasuo	395/600
☐	5404479	April 1995	Yamamoto	395/425
☐	5422735	June 1995	Ogawa	358/456
☐	5428727	June 1995	Kurosu et al.	395/147
☐	5432614	July 1995	Yamamoto	358/403
☐	5434684	July 1995	Sugiyama	358/527
☐	5461682	October 1995	Nomura	382/232
☐	5517583	May 1996	Horiuchi et al.	382/239
☐	5535013	July 1996	Murata	358/432
☐	5555322	September 1996	Terai et al.	382/232
☐	5555362	September 1996	Yamashita et al.	395/145
☐	5572726	November 1996	Hasuo	707/200
☐	5581752	December 1996	Inoue et al.	707/1
☐	5602983	February 1997	Naba et al.	395/501
☐	5608858	March 1997	Kurosu et al.	395/763
☐	5649188	July 1997	Nomura et al.	707/100

ART-UNIT: 271

PRIMARY-EXAMINER: Black; Thomas G.

ASSISTANT-EXAMINER: Coby; Frantz

ATTY-AGENT-FIRM: Fitzpatrick, Cella, Harper & Scinto

ABSTRACT:

There is disclosed an electronic filing apparatus which allows to handle files, prepared by different application programs, as the files common to these programs in easy and inexpensive manner. The drawing information, transmitted from each

application program activatable by the computer system, is converted into a predetermined print data format, defined by the operating system, by the printer driver. Then the QuickDraw-common document conversion device converts the print data, converted into the predetermined print data format, into the common document file format which can be directly referred to by the plural application programs, and the common document in thus converted common document file format is stored in the data base.

89 Claims, 43 Drawing figures

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